

Algebra 2 GHP
Unit 1 Part 1 Review

Name _____
 Date _____ Period _____

I. Classify the numbers by putting an X in the space for the set of numbers for which it belongs.

	N	W	I	Q	Ir	R
1.) 8						
2.) $0.\overline{34}$						
3.) -5						
4.) $2\frac{1}{2}$						
5.) 0						

II. Match each property on the right to the example that illustrates it on the left.

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| _____ 6.) $2ab = 2ba$ | A.) Closure Prop. of Add. |
| _____ 7.) $5(3x + 1) = 15x + 5$ | B.) Closure Prop. of Mult. |
| _____ 8.) $a + b$ is a real number | C.) Commutative Prop. of Add. |
| _____ 9.) $x + 3 = 3 + x$ | D.) Commutative Prop. of Mult. |
| _____ 10.) $10(1) = 10$ | E.) Associative Prop. of Add. |
| _____ 11.) $6 + (-6) = 0$ | F.) Associative Prop. of Mult. |
| _____ 12.) $(9x + 7) + 2 = 9x + (7 + 2)$ | G.) Inverse Prop. of Add. |
| _____ 13.) $3\frac{3}{4} \cdot \frac{4}{15} = 1$ | H.) Inverse Prop. of Mult. |
| _____ 14.) ab is a real number | I.) Identity Prop. of Add. |
| _____ 15.) $14 + 0 = 14$ | J.) Identity Prop. of Mult. |
| | K.) Distributive Property |

III. Evaluate each expression by using the order of operations.

16.) $21 - 3 + 2 \cdot 4 - 6^2 \div 2$

17.) $(5 - 2)^3 + 6 \cdot (-4 - 1)$

IV. Simplify the monomials. (No negative exponents may remain in your answer)

18.) $x^5 \cdot x^{-7} =$

19.) $(4x^5)^3 =$

20.) $\left(\frac{a^2}{a^3b^5}\right)^{-4} =$

21.) $\frac{(5a^3b)^2(-2a)^2}{10a^8b} =$

22.) $(-x^3y^{-3}z^8)^2(2x^4y)^3 =$

23.) $\left(\frac{3}{5}\right)^{-2} =$

24.) $121^{\frac{1}{2}} =$

25.) $36^{\frac{1}{3}} =$

26.) $\left(\frac{12x^2y^{-3}z^{-7}}{4xy^{-4}z^3}\right)^{-2} =$

27.) $(81x^{-2}y^3)^{\frac{-3}{2}}$